

TABLE OF CONTENT

CHAPTER	TITLE	PAGE
	DECLARATION	ii
	ACKNOWLEDGMENT	iii
	ABSTRACT	iv
	ABSTRAK	v
	TABLE OF CONTENT	vi
	LIST OF TABLE	xii
	LIST OF FIGURES	xiv
	LIST OF ABBREVIATION	xvii
	LIST OF APPENDICES	xviii
1	CHAPTER OVERVIEW	1
	1.1 Introduction	1
	1.2 Problem Background	4
	1.3 Problem Statement	5
	1.4 Project Objective	6
	1.5 Scope of Project	7
	1.6 Importance of Project	7
	1.7 Summary	8

2	LITERATURE REVIEW	9
2.1	Introduction	9
2.2	Knowledge	11
2.2.1	Knowledge Definition	11
2.2.2	Types of Knowledge	13
2.2.3	Knowledge Model	16
2.3	Knowledge Management	18
2.3.1	Definition	18
2.3.2	Knowledge Management Process	21
2.4	Knowledge Sharing	24
2.4.1	Definition	25
2.4.2	Knowledge Sharing Model	27
2.4.3	Knowledge Sharing Tools	30
2.5	Knowledge Sharing Framework	31
2.5.1	Szulanski's KSF	31
2.5.2	KSF for ISO Problems	35
2.5.3	KSF for Special Children	38
2.5.4	Comparison of the Framework	43
2.5.5	Justification of the Framework	44
2.6	Community of Practice (CoPs)	45
2.6.1	Definition of (CoPs)	45
2.7	Single Mother	46
2.7.1	Definition	46
2.7.2	Statistic of Single Mothers	47
2.7.3	Single Mothers Problem and Issues	51
2.8	Portal	56
2.8.1	Definition	56
2.8.2	Key Features of Portal	56
2.8.3	Single Mother Existing Portal	59
2.8.3.1	NurITA Portal	59

	2.8.3.2 Portal Informasi Ibu Tunggal Selangor	61
	2.8.3.3 Single Parent Fun Portal	63
2.9	Summary	66
3	RESEARCH METHODOLOGY	67
3.1	Introduction	67
3.2	Operational Framework	67
3.3	Data Collection	74
	3.3.1 Primary Data	74
	3.3.2 Secondary Data	74
3.4	Hardware and Software Requirements	77
3.5	Summary	78
4	ANALYSIS	79
4.1	Introduction	79
4.2	Organizational Analysis	80
	4.2.1 Department of Women Development (JPW)	80
	4.2.2 JPW Vision	82
	4.2.3 JPW Mission	82
	4.2.4 JPW Objective	82
	4.2.5 JPW Strategy	82
	4.2.6 Organizational Structure	84
	4.2.7 JPW Units	85
	4.2.8 JPW Programs	85
4.3	Interview Analysis	86

4.4	Designing Questionnaires	90
4.5	Questionnaire Analysis	94
4.5.1	Section 1: Basic Personal Information	94
4.5.2	Section 2: IT Knowledge and Utilization	98
4.5.3	Section 3: Business	115
4.6	Summary of Analysis Questionnaires	116
4.7	Conclusion	118
5	PROTOTYPE PORTAL	119
5.1	Introduction	119
5.2	Use Case Diagram	120
5.3	Class Diagram	123
5.4	Activity Diagram	123
5.5	User Requirements	124
5.6	Prototype Portal	127
5.6.1	Single mothers	128
5.6.2	Single Mothers and Children/Family Members	130
5.6.3	Single mother and Counselor	131
5.6.4	Single mother, Government and NGOs	131
5.6.5	Researcher	131
5.6.6	Knowledge Sharing Tools	132
5.6.7	Government	133
5.6.8	Module of Prototype Portal	133
5.7	User Acceptance Test	140
5.8	Conclusion	144

6	REVISION OF THE FRAMEWORK FOR SINGLE MOTHERS	145
6.1	Introduction	145
6.2	Revision of the Knowledge Sharing Framework	146
6.2.1	Vision	147
6.2.2	Community of Practice (CoPs)	147
6.2.3	Government	148
6.2.4	Non Government Agencies	148
6.2.5	Knowledge Process	148
6.2.6	KM tools	150
6.2.7	Storage	150
6.2.8	Main Arrow	150
6.3	Reflection of the Applicability of the Original Framework	151
6.4	Summary	153
7	ORGANIZATIONAL STRATEGY	143
7.1	Introduction	154
7.2	Suggestion Implementation Strategy	155
7.2.1	Introduce Single Mothers Portal	156
7.2.2	Established Roles/ Responsibilities to support the Portal	156
7.2.3	Review software/ hardware specification	157
7.2.4	Install/ configure the Portal	157
7.2.5	Enter data into the Portal	157
7.2.6	Test process in conjunction with the Portal	157
7.2.7	Review/Update/ Maintain Portal	158
7.2.8	Promotion	158

7.3	Conclusion	159
8	DISCUSSION AND CONCLUSION	160
8.1	Introduction	160
8.2	Strength of the study	160
8.2.1	To identify the elements/ requirements of Knowledge Sharing Framework for the single mothers community in Malaysia.	161
8.2.2	To build a prototype platform for the single mothers to share their knowledge and communicate each other.	161
8.2.3	To test the applicability of knowledge sharing elements for single mothers.	163
8.2.4	To propose the organizational strategy to implement the new portal.	165
8.3	Limitation of the Study	165
8.4	Recommendation	166
8.5	Summary	166
	REFERENCE	167
	APPENDICES	173

LIST OF TABLE

Table No.	Title	Page
2.1	Definitions of knowledge by year and author	11
2.2	Differences between Tacit and Explicit Knowledge	16
2.3	Definition of knowledge management by year and author	19
2.4	Definition of knowledge sharing by year and author	25
2.5	Nonaka Model	37
2.6	Knowledge Sharing Requirement	41
2.7	Comparison of the framework	43
2.8	Distribution of single mothers based on state	48
2.9	Total and percentage of single mothers according to ethnic group	49
2.10	Distributions of single mothers based on ethnic and age group	49
2.11	Factors of being single mothers	50
2.12	Classification of single mother problem	50
3.1	Steps Description	69
3.2	Hardware requirements	77
3.3	Software requirements	78
4.1	Analysis of the interview	86
4.2	Interview summary	89
4.3	Questionnaires Structure Section A `	90
4.4	Questionnaires Structure Section B `	91
4.5	Questionnaires Structure Section C `	93

4.6	Single mothers background information	95
4.7	Sharing Mechanism suitable to share knowledge	103
4.8	Obstacle faced by single mothers to share knowledge	106
4.9	Knowledge/information that single mother wants to know	109
4.10	Knowledge/information that single mother wish to share	111
4.11	Summary of portal content	116
5.1	Actors and Roles	120
5.2	Content Elements	125
5.3	Service Elements	126
5.4	Knowledge Sharing tools	126
5.5	Alphabet Descriptions	127
6.1	CoP	147
6.2	Knowledge process description	149
6.3	KM tools	150
6.4	Changes made to the revised framework	151
7.1	Roles and responsibilities	156
8.1	Category and status	161
8.2	Component and status	164

LIST OF FIGURES

Figure No.	Title	Page
2.1	Literature Review Structure	10
2.2	Knowledge Model activities	17
2.3	SECI Model	28
2.4	Knowledge sharing tools mapped into SECI Model	30
2.5	Process of internal knowledge transfer	32
2.6	Characteristic of internal knowledge transfer	32
2.7	Stages in the transfer process	34
2.8	Knowledge Sharing Framework for ISO problems	36
2.9	Knowledge Sharing Framework for special children	39
2.10	NurITA Portal	59
2.11	Features of the portal	60
2.12	Forum	61
2.13	Portal Main Page	62
2.14	Status Checking	63
2.15	Feedback form	63
2.16	United Kingdom Single Parent Portal	64
2.17	Services by the site	64
2.18	Search activities in certain locations	65
2.19	Help and Advice Service	65

3.1	Operational Framework Flow	68
4.1	JPW Organizational Structure	84
4.2	Computer and Internet facility	99
4.3	Internet Usage	100
4.4	Frequency (Times)	100
4.5	Knowledge related to the portal / website for single mothers	101
4.6	Medium of communication	102
4.7	Main reason for difficulties getting knowledge/information	104
4.8	Resources of reformation/knowledge	107
4.9	Advisory services	108
4.10	Level of knowledge needs	108
4.11	Developing a portal for single mothers	112
4.12	Content features	113
4.13	Services features	114
4.14	Knowledge sharing tools features	114
4.15	Single mothers involvement in business line and types of single mothers business	115
4.30	Knowledge Sharing Framework for single mothers	94
5.1	Portal Informasi Ibu Tunggal Malaysia	120
5.2	Use case diagram for single mothers and visitors	122
5.3	Use case diagram for administrator	122
5.4	Use case diagram for counselor	123
5.5	Components and its elements of knowledge	124
5.6	Portal Home Page	128
5.7	Registration	134
5.8	Users profile page	134
5.9	Inbox Messages	135
5.10	Users chat	135
5.11	Edit user profile	135

5.12	E-Kaunseling form	136
5.13	Display message	136
5.14	Admin profile page	137
5.15	Add article	138
5.16	Manage Category	138
5.17	Add Event/Bulletin	138
5.18	Counselor profile page	139
5.19	Counselor inbox	139
5.20	Reply Message	140
5.21	Technical aspect	142
5.22	Useful content	143
5.23	Useful services	144
6.1	Elements of KSF	146
7.1	Implementation strategy	155

LIST OF ABBREVIATION

CoP	-	Community of Practice
ICT	-	Information and Communication Technology
MSC	-	Multimedia Super Corridor
NITA	-	National IT Agenda
K-Community	-	Knowledge Community
IT	-	Information Technology
SWD	-	Social Welfare Department
DFHD	-	The Division of Family Health Development
SED	-	Special Education Department
KM	-	Knowledge Management
KS	-	Knowledge Sharing
JPW	-	Department of Women Development
KPWKM	-	Ministry of Women, Family and Community Development
NGO	-	Non-Governmental Organization

LIST OF APENDICES

Appendices No.	Title	Page
A	Gantt Chart Project 1 and 2	173
B	Interview Question Sample	176
C	Questionnaires	181
D	UML Diagram	188
E	User Manual	199
F	UAT Evaluation Form	233